

IN THE CLAIMS:

The following claim listing will replace all prior claim listings.

1. (*Currently Amended*) A liquid ~~fluid~~ mixer for pressure feeding liquids ~~fluids~~ flowing through at least two supply lines to a mixing line at an arbitrary ratio, each supply line comprising a diaphragm for adjusting the flow rate of the liquids ~~fluids~~ provided on the upstream side from a point where said at least two supply lines are merged to the mixing line and a pressure reducing valve further upstream of said diaphragm and in series therewith, and a back pressure valve whereby fluctuations of the pressure in the liquids on the downstream side of the back pressure valve are absorbed in said mixing line.

2. (*Currently amended*) The liquid ~~A fluid~~ mixer of claim 1, further comprising a flow meter, wherein the back pressure valve and a flow meter are arranged in series in the mixing line.

3. (*Currently amended*) The liquid ~~A fluid~~ mixer of claim 2, the diaphragm being selected from a fixed orifice and a regulating valve.

4. (*Cancelled*)

5. (*New*) A liquid mixer for pressure feeding liquids with pumps, the

liquids flowing through at least two separate supply lines to a mixing line at an arbitrary ratio, each supply line comprising:

a diaphragm for adjusting the flow rate of the liquids situated on the upstream side of a point where the at least two supply lines are merged to the mixing line,

a pressure reducing valve situated further upstream of the diaphragm and in series therewith, and

a back pressure valve whereby fluctuations of the pressure in the liquids on the downstream side of said back pressure valve are absorbed in said mixing line, the diaphragm being selected from a needle valve, a fixed orifice, and a regulating valve.

6. (New) A liquid mixer for pressure feeding liquids with pumps, the liquids flowing through at least two supply lines to a mixing line at an arbitrary ratio, each of the at least two supply lines comprising:

a diaphragm for adjusting the flow rate of the liquid in the line and located on the upstream side of a point where the at least two supply lines are merged to the mixing line;

a pressure reducing valve located further upstream of the diaphragm and in series therewith; and

a back pressure valve whereby fluctuations of the pressure in the liquids on the downstream side of the back pressure valve are absorbed in the mixing line, and further wherein said pressure reducing valve and said back pressure valve are automatic valves.

7. (New) The liquid mixer of either of any one of claims 2, 3, or 5 wherein the pressure reducing valves and the back pressure valve are automatic valves.